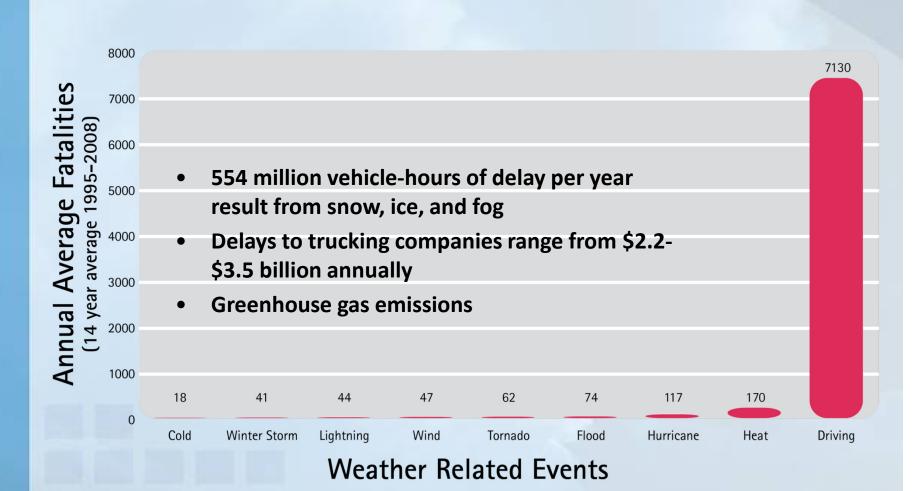
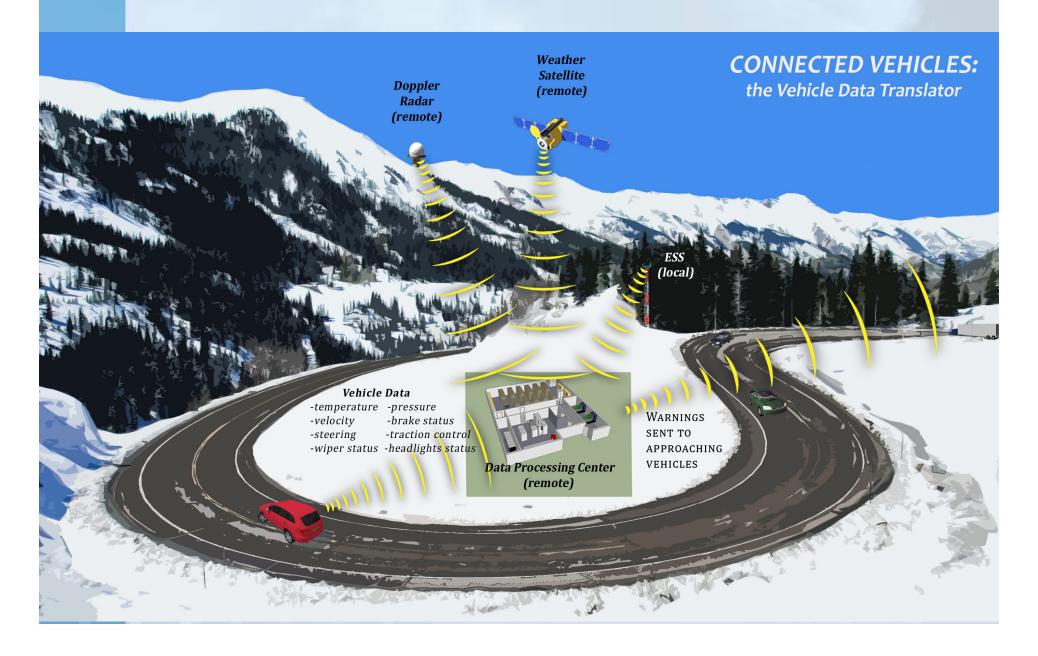


Why the need?



The concept



Sample input data

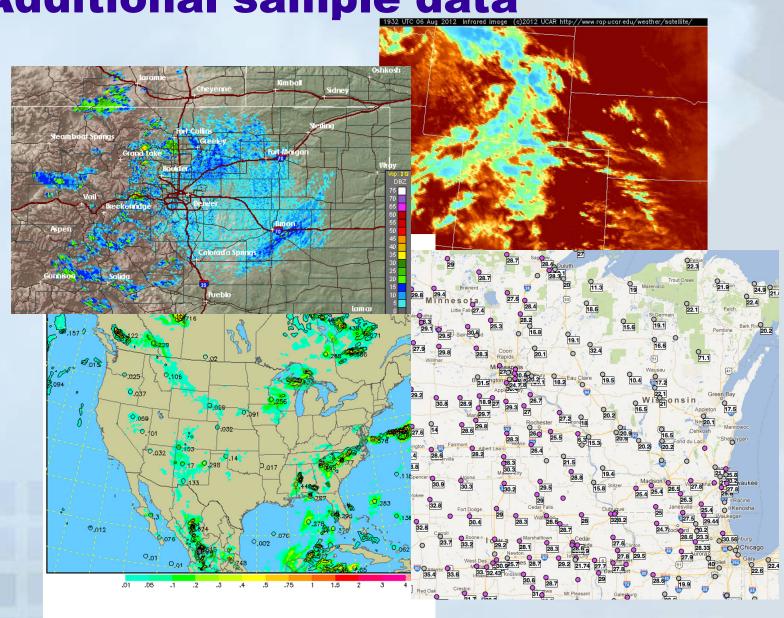
Probe data

- External air temperature
- Atmospheric pressure
- Wiper status
- Headlight status
- Accelerometer
- Anti-lock braking status
- Traction control
- Stability control
- Rate of change of steering
- Vehicle velocity
- Brake status
- Brake boost

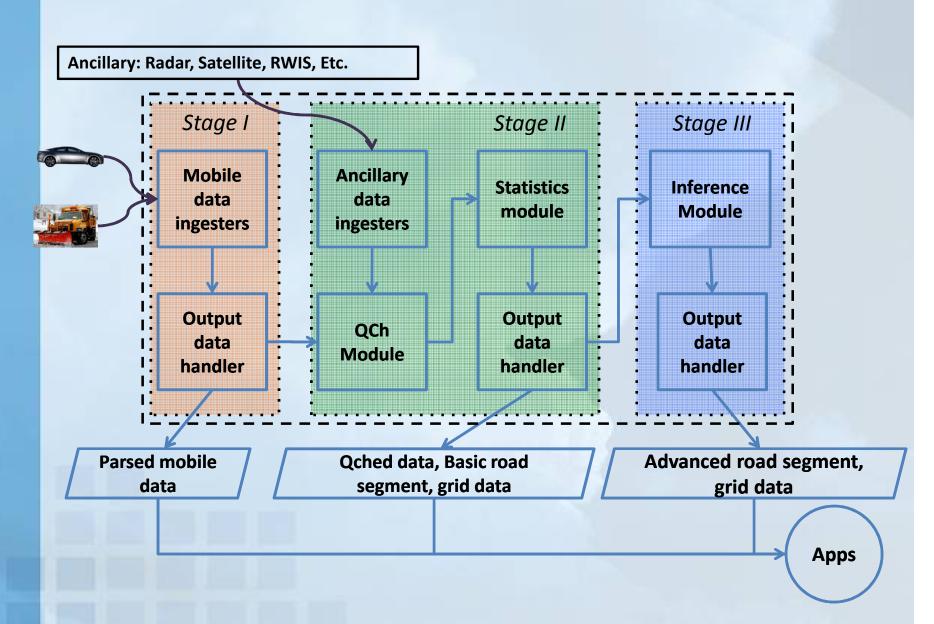
Probe data

- Date
- Time
- Location
- Vehicle heading
- Rain (rain sensor)
- Relative humidity
- Pavement temperature
- RPM
- Engine torque
- Exhaust diagnostics

Additional sample data



Schematic

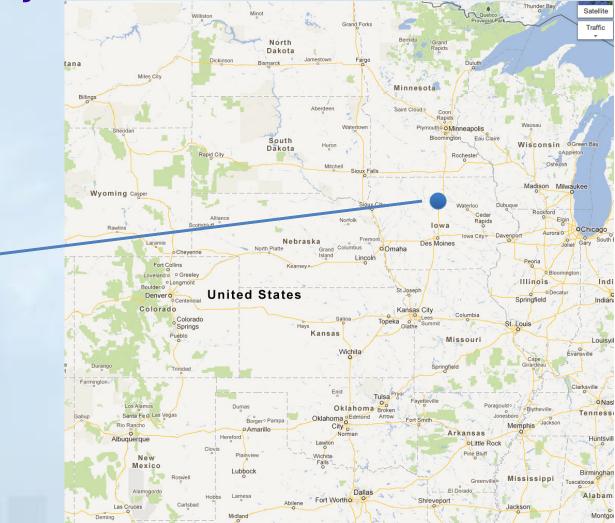


Stage I

42.5N, -93.5W

08:38.23

Simple quality-control



Stage II

- Advanced quality control
- Clarus-like algorithms
 - Anticipated Range Test
 - Persistence Test
 - Step Test
 - Spatial Tests (replaces Neighboring Station Test)
 - Climate Range Test

Additional QC

- Data Filtering Test
- Model Analysis Test (Enhanced)
- Neighboring Vehicle Test
- Combined Algorithm Test

Stage II continued

Statistical output

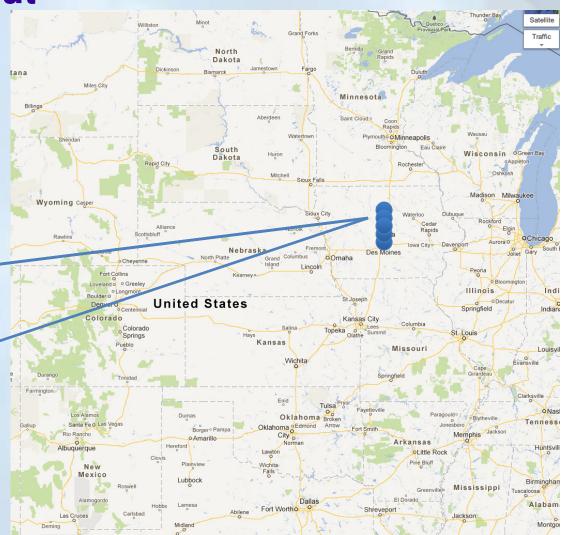
Mean temp = 56.8F

Wiper Status:

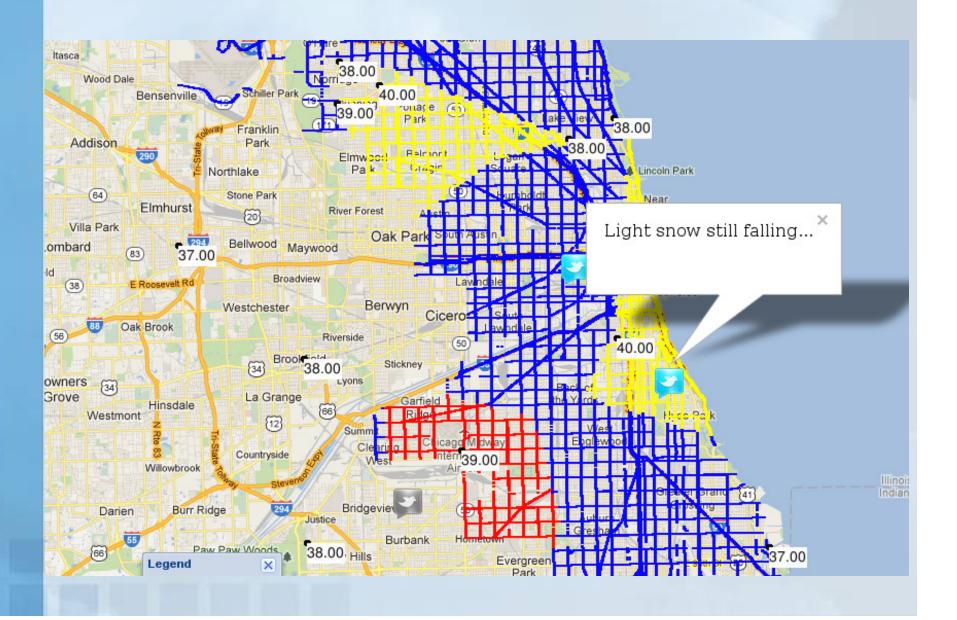
Off: 35%

Int: 50%

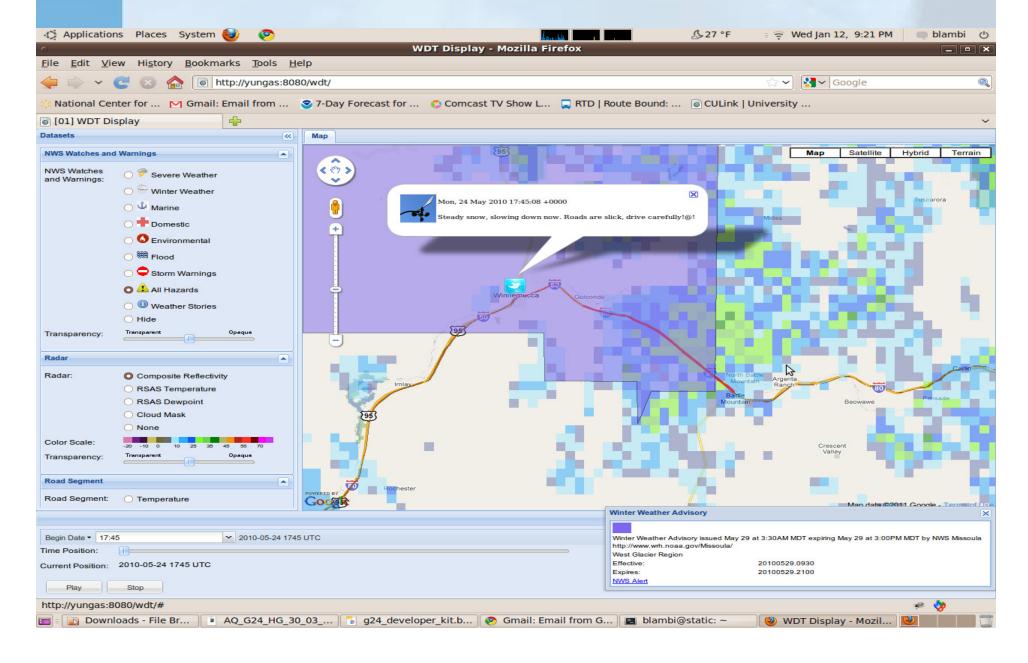
On: 15%



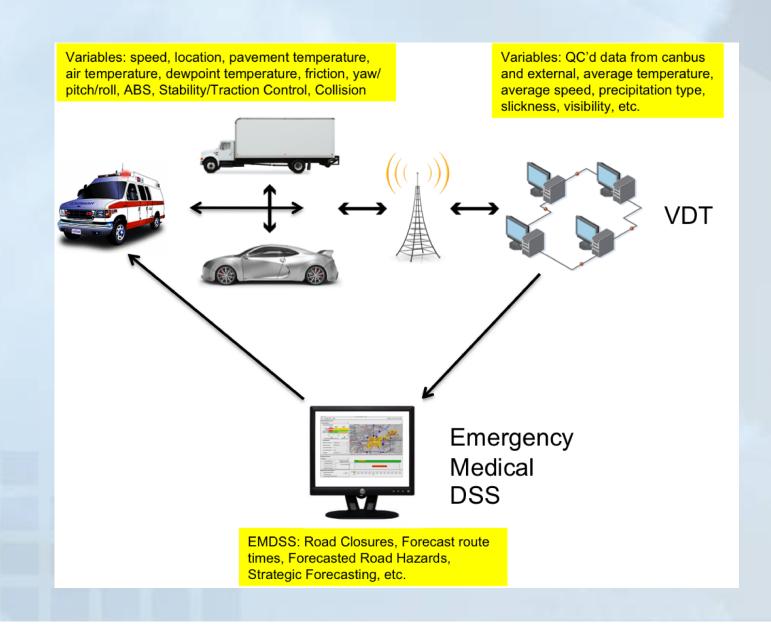
Stage III



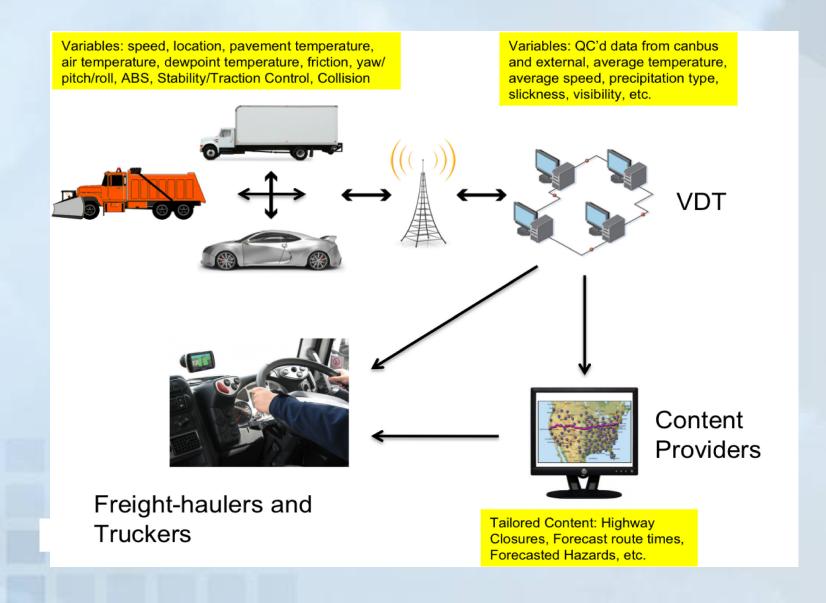
Display



Emergency Management



Fleet Operations



Thank-you

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